GRUMMAN
planenews

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Word's out: keep lid on trade secrets

While a free flow of information is necessary for day-to-day operations at Grumman Aerospace, keeping a lid on what information goes outside the Grumman gates is every Grummanite's business.

"We must continue to safeguard our technical knowledge and information, manufacturing techniques and other trade secrets from our competition — both on the national and international levels," stresses Grumman Aerospace President George Skurla.

"Such information is what makes Aerospace strong and competitive," states Skurla. "For Grumman to keep its competitive edge, everyone must play an active role in safeguarding our trade secrets — especially in today's business climate.

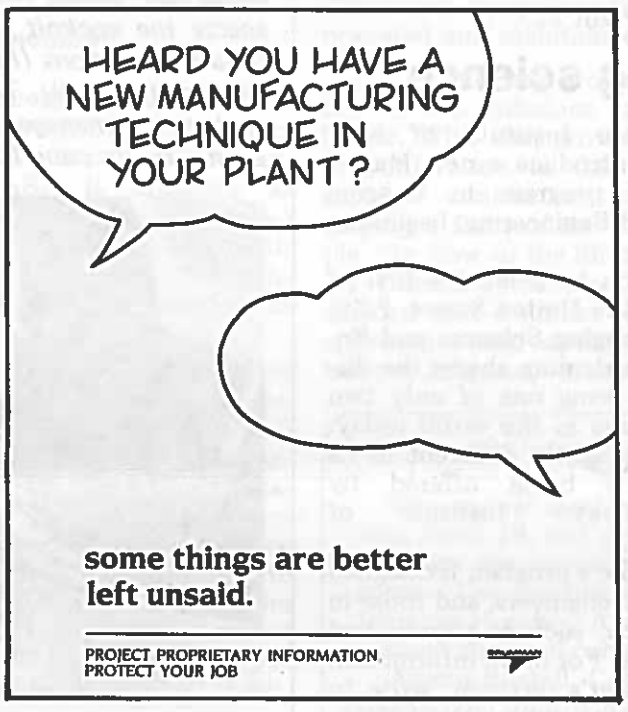
Competition extremely keen

"Unlike years ago, there are fewer and fewer major aircraft programs on the horizon," continues Skurla. "Competition is extremely keen for these awards. And winning our share of the next generation of aircraft programs is critical to Aerospace. We can't afford to soften our competitive edge by inadvertently giving away trade secrets."

An employee awareness campaign is being launched this month to inform all Grummanites about what measures must be taken to safeguard high tech secrets — and how individuals can play a role in that effort.

In March 1983, the company formed the Critical Technology Committee to set up ways to comply with new government regulations on technology transfer (see sidebar) and to safeguard company trade secrets.

During the past year, the committee has been studying what information should be protected. Part of that effort resulted in the publication of a Proprietary Technology List (PTL).


HEARD YOU HAVE A NEW MANUFACTURING TECHNIQUE IN YOUR PLANT?
some things are better left unsaid.
PROJECT PROPRIETARY INFORMATION, PROTECT YOUR JOB

Posted. *This is one of many posters that will be appearing throughout the company as part of the awareness campaign.*

While the PTL is not the size of a Sears catalogue, it is a listing of "trade secrets" that if the competition knew about, would take the cutting edge out of Grumman's competitiveness in the marketplace.

Tricks-of-the-trade

"The PTL contains 60 technology areas which cover both proprietary and non-proprietary design and manufacturing know-how as well as equipment and software," reports committee chairman Tom Kelly, vice president of Information Resource Management. "Some items are not listed in the PTL, because Grumman does not want to let the competition even know that it is working on them."

Kelly stresses that the company is not going to stop all exchanges with other companies and retreat into a sealed vacuum. "A free flow of information is essential to the American way of doing business — especially in the high tech field," says Kelly. "Rather, we must be conscientiously aware about inadvertently disclosing information that is vital to the company's competitive stature."

Aside from the top priority items found in the PTL, there are other areas worth safeguard-

(Continued on page 7)

Watkins named head of Stuart Ops.

Vice President Bob Watkins has been appointed the new general manager of Stuart Operations in Florida. He succeeds Vice President Ed Dalva who retired on March 31 after over 43 years' service with Grumman.

Elected a vice president in June 1982, Watkins formerly was deputy director of Material Operations. Formed in 1981, this organization includes Corporate Procurement Operations and the Material Management Department.

Watkins had assumed this position after serving 16 years as executive assistant to Grumman Aerospace President George Skurla. In this role, he was involved in the myriad of daily activities that normally take place in the office of a chief executive and operating officer. In this post, he was also responsible for administration of the Executive Staff departments and for interfacing with the Washington Office, Field Operations and Corporate Flight Transportation, among others.

Bob Watkins

After being discharged from the U.S. Navy in 1953, the new general manager began his Grumman career in the Field Service Department. In 1965, he became chief of Support for the Grumman Lunar Module Program. The following year, he joined the staff of George Skurla, who at that time was director of Grumman Operations at the Kennedy Space Center in Florida.

Upon successful completion of the Apollo Program at the Cape, Watkins returned to New York and in 1973 was named director of Material and Logistics at Calverton Operations. In 1978, he was appointed director of Field Operations.

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news briefs

Groundbreaker

On Friday, March 23, Grumman Technical Services, Inc. (GTSI) broke ground for its new corporate headquarters to be located at 5195 South Washington, Titusville, Florida.

The 10,000-square-foot building will be completed in July and will house GTSI's executive, administrative, accounting, and personnel offices, plus its computer facilities.

GTSI is a subsidiary of Grumman Aerospace and is part of the team that won the multi-billion dollar Shuttle Processing Contract last September.

New posts

Two Grummanites recently received new assignments.

Dr. Robert Madey has been appointed director of Business Development at Grumman Houston Corporation. He reports to Grumman Houston President Bob Pearson.

Madey is responsible for government and commercial business activities in both the domestic and international arenas. In addition, he acts as liaison between Grumman Houston and other Grumman affiliates. Madey can be reached on Ext. 9489, mail stop A17-25.

In Grumman Aerospace, Harold Beaton has been named program director of Trainer Programs. In his new post, he reports to Al Verderosa, vice president, Aircraft and Marine Programs and Senior Vice President Pete Oram, Aircraft and Marine Programs.

Beaton is located in Plant 47 and can be reached on Ext. (119) 6809; mail stop C02-47.

Professional note

Morty Rochman, assistant manufacturing manager for the C-2A Program, has been elected chairman of the Long Island chapter 88, Society of Manufacturing Engineers, for the 1984-85 term. He is presently working in Plant 25.

Imaging science

Polytechnic Institute of New York will introduce a new Master of Science program in Imaging Sciences and Engineering, beginning this fall.

In addition to being the first of its kind in the United States, Polytechnic's Imaging Sciences and Engineering curriculum shares the distinction of being one of only two such programs in the world today. The other, slightly different in its approach, is being offered by Japan's Tokyo Institute of Technology.

Polytechnic's program is designed for electrical engineers, and those in related fields, such as physics and mathematics. For more information on this master's program, write to Polytechnic Institute of New York, 333 Jay Street, Brooklyn, N.Y. 11201.

retirees

On behalf of our fellow workers, PLANE NEWS salutes the following men and women for their contributions to the company and wishes them well in their retirement. Those who have recently retired are:

Joseph Borak (2), Doris Carpenter (15), Ernest A. Ciappa (15), Tsun C. Fang (35), Charles Vogeley (GAA), Walter L. Paul (5), Claire Pereira (35), Harold W. Peterson (3), Isaac Cohen (25), Warren Davis (9), John P. Allio (66), John L. Rannou (6), Ettore Borrelli Jr. (8), Vincent J. Kurtz (17), John Zukowski (88), Robert McGlore (8), Joseph Naso (2), Arthur S. Perkins (1), Patsy P. Siani (5), Alice M. Smith (30), George W. Thompson (2), Benjamin Urso (5), Charles J. O'Neil (44), Anna Rasmussen (30), John Tylinski (3), Valentine Brodowski (77), Darwin Crone (55), Eugene J. Dolan (30), Harold White (77), Arthur Thibodeau (77), Rocco Catania (17), John D. Woodworth (3), Roy T. Arzberger (5), Violet M. Pratesi (40), Vladimir Seredinsky (5), Julius J. Kollarik (25), Charles J. Ridolf (25), Lucy Matthews (30), John H. Jackson (1), Martin Storch (65), Raymond Schmitt (2), Joseph Cudia (44), Elbert Matthews (1), Guenter H. Baumann (12), Oscar J. Chliviny (2), Pasquale Santivasci (14), Victor J. Croizat (GII), Virginia C. DiPalma (25), Richard Wicks (3).

Personals

My family and I wish to express our thanks and appreciation to all my friends and co-workers for their expressions of sympathy, thoughts and prayers during the recent loss of my father. Michael F. McCabe

On behalf of my family and myself, I want to thank all my friends and co-workers for their kindness, support and expressions of sympathy during the recent loss of my wife Catherine. William H. Keil

My family and I gratefully acknowledge and deeply appreciate the comforting thoughtfulness of my Grumman friends and co-workers upon the recent loss of my mother. Marty Plawsky

My family and I wish to express our deep appreciation to all our friends at Grumman for their kind and thoughtful expressions of sympathy extended to us during the recent loss of my wife Lucy. Anthony DeNardo

My family and I wish to thank ou friends and co-workers for their kind an sincere expressions of sympathy during the recent loss of my husband. The flowers, mass cards and generous donation to the cancer fund were greatly appreciated. Dorothy Ertola

Close up. *James Ambrose (R), Under Secretary of the Army, inspects the cockpit of an OV-1 Mohawk during his recent visit to Stuart Operations (Fla.). Accompanying him on the tour are Grummanites (L to R): Tom Doyle, OV-1 program manager; John Lueck, engineering manager; Ed Dalva, vice president and general manager of Stuart Ops.; and Don Archer, contracts manager.*

Set to fly. *James Ambrose, Under Secretary of the Army, gets ready to fly in an OV-1 Mohawk.*

Under Secretary of Army visits Stuart Ops.

James Ambrose, Under Secretary of the U.S. Army, recently visited Grumman Aerospace's Stuart Operations in Florida for an update on the 0V-1 Mohawk program.

The Stuart team briefed the under secretary on the Mohawk's ongoing and future programs. While at the Grumman operational center, Ambrose had the opportunity to fly in one of the Mohawks currently being remanufactured by the Grummanites at Stuart.

Pride. *George McKendrick, (C) of Plant 6 Maintenance, doesn't like FOD (foreign object debris). In fact, he buys his own T-shirts with special 'Fight FOD' messages on them. For his efforts, he recently received a FOD jacket from (L to R) Ed Campbell, CTO FOD manager; George Gaschott, Facilities/Maintenance manager; George Wiesinger, Corporate FOD director; and Al Seward, CTO Quality Operations director.*

Kelly leads proposal team at NASA-Houston

Sometime in May or June a team of about 15 Grummanites will visit Johnson Space Center in Houston, remaining for six months or more. Their mission: to get a head start on bidding for the Space Transportation System Operations Contract (STSOC), which the National Aeronautics and Space Administration (NASA) is expected to award in early 1986.

STSOC is roughly analogous to the Shuttle Processing Contract (SPC), which Grumman won last September as part of the Lockheed-led team. NASA wants to consolidate into one contract the work being performed at JSC by many vendors under a multitude of separate contracts. It hopes to achieve the same benefits realized at Kennedy Space Center under the SPC: strong, single-point contractor responsibility and management, streamlined workflows, a substantial cost savings, and the capability of handling more frequent shuttle missions.

In the near future

Tom Kelly, vice president for Information Resource Management, is heading up the Houston-bound assessment team. Besides Kelly, the others on the team so far include Dave Lang, senior vice president at Grumman Houston Corporation, who will be Kelly's deputy; and Charles Munzer, senior technical staff assistant in Advanced Projects at Grumman Data Systems, who will direct GDS efforts on the team.

"The team will be directed by Aerospace with significant support from Grumman Data Systems," says Kelly. "Assessment teams from Grumman and other prospective bidders will visit Johnson Space Center to observe operations — what the current contractors are doing and how they do it. Also, those incumbents will be given the opportunity to observe work in other areas performed by other contractors, for which they might want to submit bids."

According to Kelly, Grumman is aiming to be the prime contractor for STSOC, which would be worth roughly $200-250 million per year.

Date to be announced

The assessment period will begin sometime between May and July — the exact date has yet to be announced. NASA is expected to issue RFPs (requests for proposals) during second quarter 1985, with a deadline that summer. The contract would then be awarded in early '86.

There are four major categories of work to be performed under the STSOC: facilities maintenance and operations, flight preparation, sustaining engineering, and direct mission support. "The prime contractor will be expected to take charge of all these areas," Kelly says. He adds that STSOC will include some work that is currently performed by NASA itself, but NASA has yet to specify just what that will entail.

Kelly points out that at Johnson, just as at Kennedy, there are many repetitive activities associated with launching the Space Shuttle.

"Kennedy is concerned with launching the vehicles, as well as preparing them for launch and refurbishing them when they come back," he explains. "Johnson plans and directs the mission itself. Once the vehicle clears the launch tower on the way up into orbit, it comes under the authority of Mission Control at Johnson."

Much of what Kelly terms "repetitive activity" is related to the training of flight and ground crews. There is also a host of sophisticated simulation equipment that must be operated and maintained.

JSC's role has grown bigger as the shuttle missions have grown longer. With that growth has come a proliferation in the number of support contractors, which now employ a force of about 4,000 people. "In view of the Shuttle Processing Contract's success, NASA has decided that a similar procurement approach would work for repetitive tasks at Johnson," Kelly says.

Kelly says Grumman has an excellent chance of winning the STSOC.

"We think our experience on the manned space program in general, and the Shuttle Processing Contract in particular, makes us a serious contender for this effort, and we're taking it just as seriously," he says. "The contact we have had with Johnson through a variety of space-operations studies, such as the work done by Dick Kline and Alex Alexandrovich on the Space Station Systems Definition Study, as well as our work on the Shuttle Wing program and the Manipulator Foot Restraint, puts us in a very good position."

Corporate team

The assessment team will be made up of people from throughout the company, and will function as a core group. Others will be called to go to Houston from time to time to assist the effort temporarily.

"So, I'll be looking to draw upon the total resources of Grumman to establish a winning team!" Kelly concludes.

Catch it on cable

The annual meeting of Grumman shareholders takes place Thursday, April 19, but you don't have to travel to Plant 4 to see it. You can view the annual meeting right from the easy chair in your living room. The meeting will be broadcast over local cable television systems on Monday, April 23, from 9:30 to 10 p.m. Here are the cable systems that will carry this Grumman program:

Adams-Russell Cable (Channel 12A); Cox Cable (Channel 22); Group W Cable (Channel 10); Huntington Cable (Channel 6); L.I. Cablevision-Riverhead (Channel 6); Newsday Channel (Channel 24); Viacom Cable (Channel 6); and Brookhaven Cable - *7:30 to 8 p.m.* - (Channel 6).

Annual meeting. *The annual meeting of Grumman shareholders takes place at 2 p.m. on Thursday, April 19, in the north hangar of Plant 4.*

Watkins heads Stuart Ops.

(Continued from page 1)

A past chairman of the Grumman Political Action Committee, Watkins was a member of the Government Affairs Committee of the Long Island Association for Commerce and Industry, as well as a trustee of Dowling College in Oakdale, N.Y.

He is also a charter member of the Society of Logistics Engineers (SOLE), in addition to being a member of the Association of Naval Aviation, the Tailhook Association and the Navy League.

A long-time participant in the Boys Scouts of America, Watkins serves on the Suffolk County Council (L.I.) Executive Board as its vice president for planning.

Native New Yorker

A native New Yorker, the new Stuart general manager attended Hofstra and Florida Technological Universities, majoring in business administration. In 1978, he attended the Program of Senior Executives at the Sloan School of Management at the Massachusetts Institute of Technology.

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Hawk Dreamer

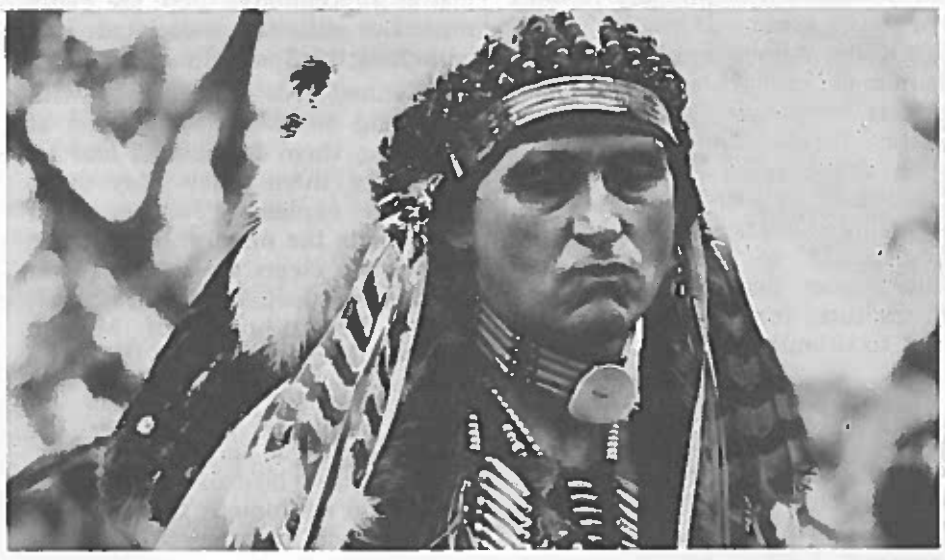
Tawodi Asgidasvhi — "The Hawk Dreamer" — is a full-blooded member of the Cherokee Nation. He is also known as Jamie Reason, a Facilities electrician in Plant 6 at Calverton Operations.

Recently, Jamie traveled to Red Clay, Tennessee — the original council grounds for the once vast Cherokee Nation. He served as delegate from the New York branch of the Cherokee people known as "Nayagi" — meaning the Land of the Rocks.

The general council at Red Clay was the first of its kind to be held since the Grand Council of 1835. "This general council was called because everyone in the different Cherokee factions across the country decided that it was time that all Cherokees bury the hatchet and become one people again," says Jamie.

On Long Island, Jamie is a well known and highly regarded artist of Indian wood and bone carvings. His carvings and traditional feather arrangements have been exhibited in studios from the east end of Long Island to Manhattan.

Jamie's traditional Indian artwork is currently on display in Shirley at the Sacred Earth Studios of which he is a co-founder.



Indian heritage. *Grummanite Jamie Reason works as a Facilities electrician in Plant 6. In his spare time, Jamie makes traditional Cherokee feather arrangements. He recently served as a delegate to the Cherokee Nation Council, held in Red Clay, Tennessee.*

Gator fan

Many Grummanites who live in or have visited Florida have been to the state's numerous alligator farms, and marveled at the bravery of the young people hired to handle the gators during shows. How, the spectator might have thought, can someone get so close to an alligator without being torn from limb to limb?

Open wide. *Before joining Grumman, Kevin Gregory was a caretaker for alligators.*

According to Kevin Gregory of Grumman St. Augustine, the trick is to straddle the gator's back.

Kevin should know. Grummanites come from a variety of backgrounds, but Kevin is probably one of the few who has ever worked with alligators. An expediter in GSAC's Production Control department, Kevin worked for two years at the St. Augustine Alligator Farm. He started there as a caretaker — the Farm has bobcats, snakes, ostriches, and other subtropical animals, in addition to alligators. Four months later, he began narrating shows featuring snakes, alligators, and "Snapping Sam the Crocodile."

The shows were primarily informational — no stunts. While perched on an alligator's back, Kevin would present facts about its lifespan, diet, and mating habits. He'd also pry open its mouth and talk about its nostrils, eyes, and teeth. The gators in the shows usually measured six or seven feet in length.

"Sitting on the back is supposed to keep you safe from being bitten," he says. "I was bitten about five times, but not seriously. The bites were just breaks in the skin, mainly on my fingers. Once, I had to get a tetanus shot, though."

Kevin enjoyed the work. He had been interested in reptiles since childhood, when he had kept pet snakes and chameleons. After he left the Alligator Farm, he worked briefly as a porpoise trainer at Marineland. In the meantime, he had an application on file at GSAC. He was hired in August of '83.

Reflecting on his career as an alligator expert, Kevin says, "It was fun, and I met a lot of interesting people. But as far as a future goes, it was kind of limited. What I'm doing now at Grumman has much more of a future in it."

Cool million

The first day of spring was a sunny one for Frank Pita, a parts fabricator in Plant 2 Project Pride. That morning, he bought a Lotto ticket for five dollars. The next day, just before starting his day's work, he learned he had picked a winning combination of numbers — netting him a cool $1 million.

"I didn't believe what I was seeing, was my first reaction," Frank recalls. "So, I went over to this guy Glen, who works near me, and said, 'Glen, check these numbers out.' Glen did, and then he said to me, 'Frank, you're a millionaire.' "

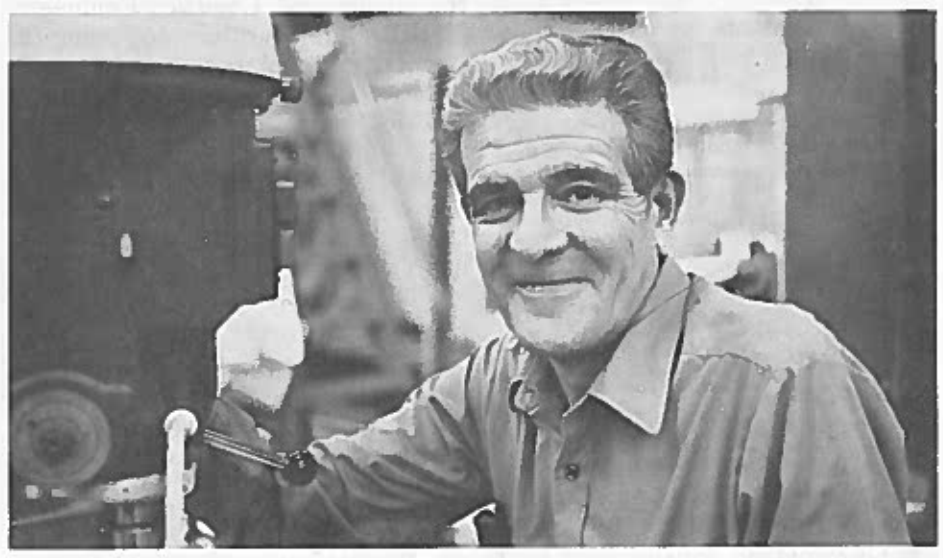
Frank and his wife had bought Lotto tickets every Wednesday and Saturday since the game was begun by the State Lottery Commission several years ago. In the weeks ahead, they'll be using their winnings toward a trip to Rio de Janiero, where they have relatives. Frank says the trip will be the first one he's taken in years. Asked where the next stop will be, Frank replies that it might be Spain — there are family members there, also. But that will have to wait until next year, because Frank plans to continue working for Grumman.

The Pitas are being fairly cautious about spending the money. Frank plans to have new siding put on his house. "I had already planned to have this done," he says, "but the money will make it a lot easier."

The only other major purchase Frank plans to make right away is a new car for his wife. A Cadillac? Mercedes? Frank says, "I like the looks of the Cutlass Supreme. I think I may go for that."

Many people who have won contests have found their fortune to be a mixed blessing, since they're often hounded by strangers looking for handouts. Frank isn't too worried about that. But, to be on the safe side, when *Newsday* ran an article on him and another Lotto winner, Frank asked that his photograph not be included.

How did his coworkers react to the news? "They're all very happy for me," Frank says. "I was shaking when I left here on the day I found out, I was so shocked by the news. So, my boss was kind of worried, and he called me at home later on to make sure I got there safely."



Feeling like a million. *The day after he learned that he had won $1 million in the Lottery, Frank Pita was back at his job in Plant 2.*

Tax-free award. *Grumman Aerospace President George Skurla (L) presents checks of $2,870 each to suggestors (L to R) Robert Rabell, Odd Sangesland and Bernard Kohler. They noticed a discrepancy in how Grumman pays for its fuel oil — and their suggestion saved the company $400,000.*

Taxing endeavor earns three men big bucks

The Project Sterling suggestion of three cost-conscious Grummanites will save the company close to $400,000 in its first year of implementation.

"It's all a matter of being alert to the small details," says Odd Sangesland who along with Bernard Kohler and Robert Rabell have received cash awards of $2,870 each for having noticed a discrepancy in the way Grumman Aerospace pays for its fuel oil.

According to Sangesland, "We were doing some work on the main steam power plant near Plant 5 including comparisons of operating with natural gas versus fuel oil — since we have the capacity to switch from one to the other depending on cost. Normally we only look at the BTU (British Thermal Unit) heating value of the fuels, but this time we happened to check the relative costs involved. We noticed that the company was paying considerably more than it should have been in taxes on the oil. The reason for the difference was essentially unequal treatment of the taxes on the oil."

After checking the company's fuel oil bills, the Grummanites' investigation revealed that the company was paying sales tax on all the fuel oil it consumed, regardless of the purpose of its use. Since oil used directly for manufacturing purposes is tax exempt and gas is currently only partially taxed, the three Grummanites reasoned that the fuel oil Grumman was using should be treated similarly. They then suggested that Grumman stop paying State sales tax on fuel oil used specifically in manufacturing processes and seek tax refunds for such fees already paid out. Needless to say, the company was delighted with the idea.

"What it really amounts to," says Sangesland, "is a case of confusion over the application of tax exemptions for some purchases and uses of fuel oil. We were just lucky to notice it and, with a little research, come up with a solution to correct the mistake."

Grumman is also counting its luck, to the tune of a minimum of $70,000 up to a maximum of $200,000 per year in savings, starting in 1984.

What will the three innovative suggesters spend their money on? Sangesland says "the first thing I did was go out and buy myself about $700 worth of exercise equipment that I wanted, but thought I'd never be able to afford. The rest of the money will be used for college tuitions since I have three kids all in college right now."

Rabell has similar plans: "I'll probably go out and buy myself a rowing machine. But for now the money is in a money market and is earmarked for my kid's college tuitions."

National Secretaries Day is Wednesday, April 25

First TA-4 unit shipped to GSAC

Enclosed in a protective shroud, the forward section for the first Malaysian TA-4 trainer aircraft left Plant 5 on Monday, March 26. Destination: Grumman St. Augustine Corporation (GSAC) in Florida.

The forward section — the first of six — was originally part of a retired A-4 Skyhawk and was modified by Plant 5's Product Development Operations Center (PDOC). At St. Augustine, the aircraft's tail, wings, and engine will be rejoined with this modified forward section. The six finished TA-4s will be used by the Royal Malaysian Air Force along with its fleet of 34 Skyhawks, which are being rebuilt by GSAC.

Bill Fehrs, A-4 deputy managing director, says the forward section's completion was right on schedule.

"This is a significant milestone in the eyes of the Malaysians, as well as Grumman," he says, "because everything pivots around getting the trainer flying. Once we get the trainer up, and the Malaysian pilots trained on it, their people will be able to fly the A-4s coming off the line, and eventually, train other Malaysian pilots."

After the re-assembly is finished, the TA-4 will have to pass a variety of checks and tests before being flight tested in June. While that's going on, the second forward section will undergo proof-load testing in Grumman's static-test facilities. Fehrs explains, "we determine what the forward section's maximum load will be. We apply that maximum load on the ground with hydraulic cylinders."

Such tests aren't necessary prior to first flight, but must be undertaken to satisfy customer requirements. The second forward section will be shipped to GSAC in June, and the third in September.

The Grumman TA-4 will be functionally identical to the Navy trainer aircraft, the TA-4J. A major difference is that the latter aircraft, though derived from the A-4 design, was constructed from scratch. In Grumman's TA-4, the A-4 fuselage is extended 28 inches to provide room for a second seat, enabling both student and instructor to be accommodated. In addition, the forward section has been "restuffed" with overhauled components and all-new wiring.

Unit values

The following are unit values for the Grumman Employee Investment Plan as of February 29, 1984. These unit values are compared to the preceding month's values (January 1984).

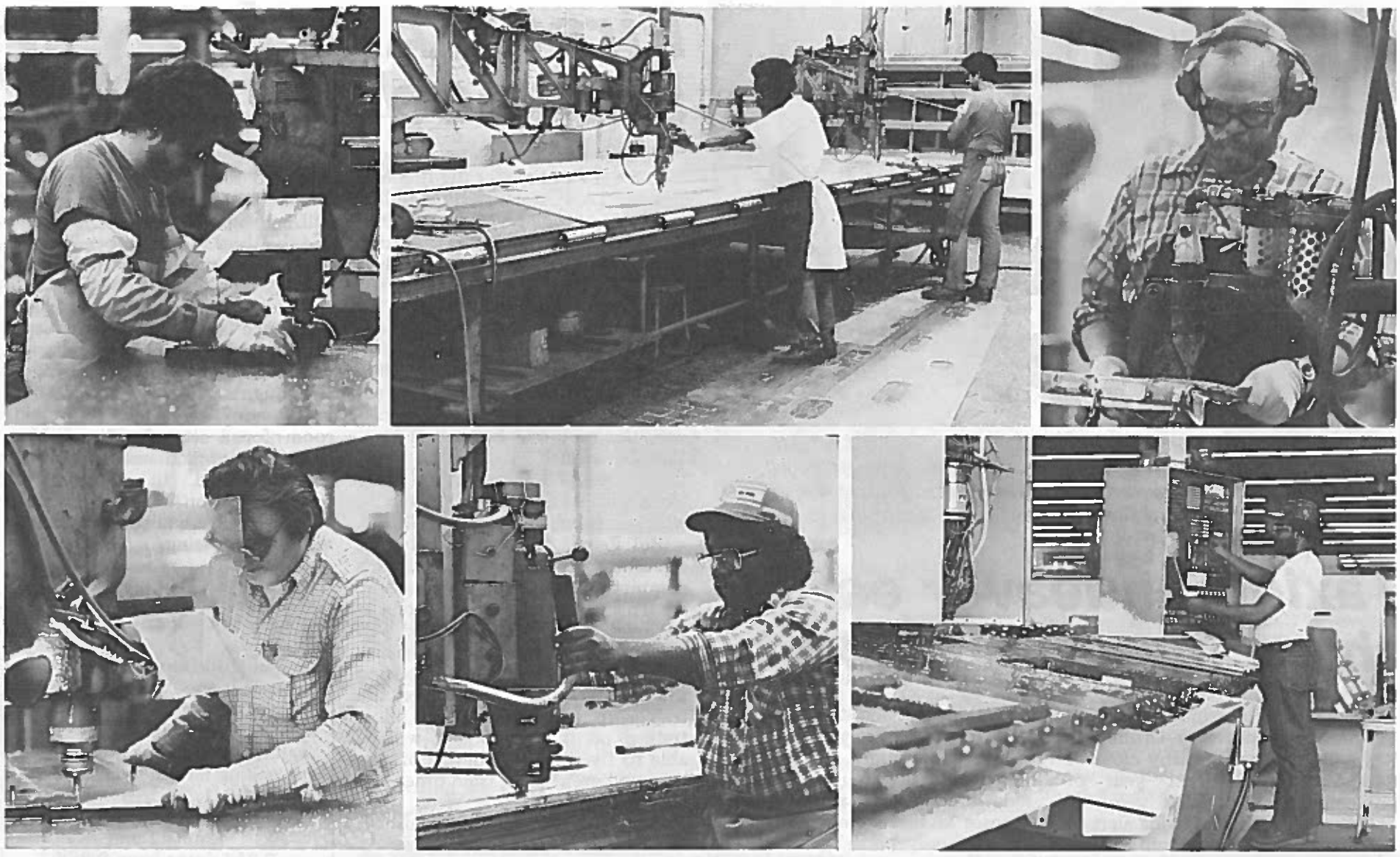
Equity Fund
2.254 down from 2.385

Fixed Income
3.669 up from 3.481

Guaranteed Income Fund
1.770 up from 1.755

Company Stock Fund
$23.188 up from $23.00

Bound for the Sunshine State. *Grummanites prep the first forward section for the Malaysian TA-4 trainer for its shipment to St. Augustine.*



The source. *The 001 crew makes parts for all Grumman planes. In top row (L-R), Stuart Goldberg uses an after-form pin router, Bernard Barrett and Felix Cappuccio drill sheet metal, and Joe Duffy works with a Quackenbush hand router. At bottom, Curtis Bell uses a pin router, George Spellman operates a radial-arm router, and Robert Williams monitors the NC router. (Photos by Fred Annette)*

Profile

Dept. 001 pays close attention to details

Not only is Department 001, Router and Shear, at the top of the department listings in the Grumman Phone Book, but it's also the starting point for much of what makes up Grumman aircraft.

The department's specialty is flat detail parts for aircraft assemblies and subassemblies. It will eventually be consolidated into the Plant 3 complex in accordance to Grumman's modernization plan. Right now, it's still split into three groups: 16 people in Plant 3, 34 in Plant 2, and seven in Plant 37.

"The job requires a lot of strength," says Harry Rafter, foreman of the Plant 3 crew. They're all men, save for one woman on the day shift and another on nights. The tools consist mostly of pin routers, radial-arm routers, radial drills, and conventional table saws. In Plant 37, some are now using the NC (numerical control) Router and Sunstrand Partsmaker.

Rafter puts the number of parts produced by his group alone well into the thousands per month. "Parts vary in size from a few inches to over 10 feet in length," he says. "They're mostly aluminum sheet-metal parts. We do titanium drilling only — not routing. Also, we used to do some composite work, but that's since been moved to Milledgeville (Ga.)."

The group works closely with Department 005, Small Parts Fabrication, of which Rafter is foreman also. A major difference between the two is that 005 produces parts that are curved. Incidentally, 005 will also oversee Grumman's new industrial robot, which has tentatively been nicknamed "Robyn."

Modernization benefits

The NC-router and the Partsmaker in Plant 37 are to be moved to Plant 3. One more of each machine will also be installed there. A smaller router, which has not yet been ordered, will be added eventually. Back in Plant 37, the shearing crew will work on a new NC shear, which will stamp out metal "blanks" fast and easily.

The department's conventional machinery will be upgraded, too. The final trim and drill people — who process work after it's been chem-milled — will use new high-cycle drills, pin routers, and a new deburring machine.

Additionally, Grumman's Industrial Engineering team has devised a floor plan that improves workflows between departments — for example, between 001 and chem milling. Plus, this helps to reduce damage in transit. The new work areas will also be roomier and will feature new workbenches.

Operators, foremen, and engineers are all fans of the new equipment. "That machine I love," says Hank Gerkins, foreman of the 0001 crews in Plants 2 and 37, about the Partsmaker. The Partsmaker produces extrusion parts — those with multiple edges. "You have a magnetic tape for every part you make. So, when you get work orders, you just have to pull the tape out, load the machine, and go."

One of the main "pluses" of the NC-Router is nesting — the machine cuts pre-programmed nests, or groups of parts, thereby saving on raw material.

Bruce Frank, an equipment operator in Plant 37, notes that the two machines do the job faster than the old methods. "It's not as physical, and not as dangerous for the operator, either," he attests.

Gerkins says 001's a great group to work with. "It's not an easy job, and it's dirty," he says. "That would seem to make it hard to keep people. But we've got some who have been with the department since the early days of the company, and several have retired with 40-plus years. I've got some really good young guys, too.

"I tell my people every facet of the job is important, and this is where it all starts," he continues. "Otherwise, those Grumman planes would never get off the ground."

Safeguarding trade secrets

(Continued from page 1)

ing. Here are just a few examples. Some are obvious, others are not.

• Working on a proposal dictates utmost secrecy about pricing, techniques, etc. However, problems can arise when Grumman teams with other companies for a proposal. It is necessary to form a good working relationship with the proposal partner, but at the same time, not "give away the company store."

"Making agreements with another firm to join forces to bid on an upcoming contract, we might give away some of our technology," warns Kelly. "If this partner decides to bid against us for the same contract — as has happened — we lose our competitiveness."

• In the research-and-development world, decisions on what is required for contract fulfillment and what is not can be tricky. The company may even decide not to go after a contract because it might forfeit a long-term money winner for the sake of a short-term award.

For instance, a few years back Grumman developed what are called "Grum-foil codes" used to predict sub and transonic aerodynamic flows over various shapes. These predictions were so accurate that it allowed Grumman engineers — for the first time — to use the wind tunnel to simply verify predictions, rather than as a "cut and try" tool. Grumman developed these codes under a customer contract — and now all of the competition uses these codes.

The popular WWII saying, 'Loose lips, sink ships,' continues to hold true in the defense business.

• How many detailed parts does your robot make in a day? How many people does it take to produce 10,000 feet of harnesses? What firms supply that kind of connector? How does that new machine in your department work? That software package really does that job, can I get a copy? "We should all use discretion when discussing our job with outsiders," says Kelly. "Information about prices, scheduling, manufacturing techniques and other Grumman information can be valuable to outsiders."

The same holds true when you are working with a customer, says Kelly. "Inadvertently disclosing manufacturing techniques or engineering tricks-of-the-trade that are not required under contract can eventually backfire down the line. The customer might be bidding against us on a future contract."

Kelly and fellow Critical Technology Committee members concede that Grumman Aerospace can not bury its head in the sand and not communicate with outside firms. "The U.S. aerospace industry is built on a free flow of information," stresses Kelly. "One day we are teaming with another aerospace firm and the next day we are competing against the same firm for a lucrative contract. We just have to make sure that we are not inadvertently giving away more than we have to."

In short, the popular World War II saying, "Loose lips sink ships," continues to hold true in the defense business. Only in today's environment, "loose lips" can stymie a company's future and result in lost contracts — and even jobs.

U.S. stemming flow of technology

Traditionally, it has been a numbers game: quality vs. quantity. The Soviets field more tanks, ships, aircraft and other weapons than the United States and its NATO allies combined. The U.S. relies on the technological superiority of its weapons to offset the far numerous — but less sophisticated — arsenal of Soviet weapons.

Over the past decade, though, the U.S. has seen its technological advantage erode. The Soviets have made significant advances in the quality of their military hardware.

Top U.S. officials fear that all too often these new Soviet weapons are being designed and manufactured with the help of U.S. technology — obtained legally and illegally.

This growing concern has prompted the Reagan administration to take numerous steps to stem the flow of high tech information to the Eastern bloc. These measures range from tightening the issuance of export licenses to enlisting the aid of U.S. industry in protecting both classified and unclassified technology.

"As a vital member of the U.S. defense community, we must assume that Grumman Aerospace is a potential target of opportunity," says George Skurla, Grumman Aerospace President. "And we are cooperating fully with the government in complying with these protective measures."

Widespread effects

Since the Thirties, the Soviet Union has pumped large amounts of time and money into acquiring Western technology so it can apply it to its military weapons. In recent years, it has become obvious that this effort is paying off handsomely for the Eastern bloc — and harming the U.S. and its allies.

"It is ironic and a serious lesson for all of us that much of the Soviet's high technology has been developed directly from skills and knowledge either bought or stolen from us by the U.S.S.R.," said Defense Secretary Caspar Weinberger in the DOD publication, "Your Defense Budget: Fiscal Year 1984."

In the process, the Russians are saving enormous financial and manpower resources — not to mention years of research and development time. In turn, their success is forcing the United States into escalating its military expenditures.

"The Soviets are continuing to field more modern and more potent weapons that pose new and greater threats to our forces," said Weinberger. "We do not pursue technology for technology's sake. Instead, we develop and field more sophisticated weapons in order to counter the quantity and quality of our adversaries' weapons. Equipping our troops with weapons at least as good as those that threaten them is expensive yet necessary."

Tightening controls

Since 1976, the U.S. response to the increasing military might of the U.S.S.R. has been to impose more stringent control on the export of critical unclassified technology, and to slow the issuance of export licenses.

The Export Administration Act of 1979 aims to "restrict the export of goods and technology which can make a significant contribution to the military potential of any other country . . . detrimental to the national security of the United States."

The "goods and technology" can be found in the State Department's Munitions List and the Department of Commerce's Commodity Control List (CCL). These lists contain over 100,000 items that must be reviewed before the issuance of licenses for export and include unclassified as well as classified technical information. In certain cases, the Department of Defense also reviews requests for export licenses.

Aside from actual products, U.S. design and manufacturing know-how is also safeguarded. Some U.S. officials claim that this information is what helps the Soviets the most.

This know-how is contained in the Military Critical Technology List (MCTL), compiled by the Department of Defense. It contains over 700 technologies that should be protected.

And there are laws and regulations, too, such as the International Traffic in Arms Regulations, Export Administration Regulations and Department of Defense Authorization Act, and Arms Export Control Act.

"Since Grumman Aerospace is a high tech firm, many company activities — ranging from sophisticated electronic black boxes to composite manufacturing techniques — can be found in these government listings," states Tom Kelly, Grumman's Critical Technology Committee chairman and vice president of Information Resource Management.

"Grummanites who are working on these projects will be given special presentations to inform them of the government restrictions in the near future," states Kelly.

what do you think?

Rules and regulations. Smoker's rights and non-smoker's rights. We asked Grummanites in Milledgeville Operations, Georgia (Plant 66) for their opinions on what they think of the current movement for stricter regulation of smoking. What do you think?

Glenda Holmes

As far as I'm concerned it makes no difference to me if people smoke around me in the office or in public or not. Smoke doesn't bother me. In fact, I smoke occasionally myself. If there are people who have health problems with smoke, then maybe they should be moved to some other area if possible. I think there are more people who smoke out there who should be left alone and maybe the people who don't like it can go someplace else. Smokers have as much rights as nonsmokers. No one is forcing those people who don't smoke to stay in any area where there's smoke that's bothering them. You really can't start regulating every place people are.

Oscar Alter

I guess I can sympathize with the nonsmokers since my wife is a nonsmoker. She is always complaining about my pipe smoke. But you have to remember smoking is a habit that is very hard to give up — or to live without — and most smokers don't want to give it up. I enjoy my pipe. If I had to do my job without smoking, I'd either eat a lot more or become a nervous wreck — probably both. Maybe there should be some separate areas or at least better ventilation so that nonsmokers are not inconvenienced so much. The radical nonsmokers who want to eliminate all smoking from public and office areas are a bit too extreme for me. There has to be some middle ground — a compromise. Nonsmokers should have their areas and smokers theirs. Eliminating smoking altogether is just too drastic.

Don Mayer

Nonsmokers have a very valid point when they ask for some kind of relief from smoke, but not allowing smoking in certain areas might very well create a problem, especially in the work environment. If people had to get up and go to another area every time they wanted to smoke that would interfere with productivity. I know that my smoking is a habit. But it's a habit that helps me to relax, and when I'm relaxed I can better perform my job. If I had to get up from my desk every time I wanted a cigarette, I would never get anything done. Separate areas in public places, especially restaurants, are fine with me. But I would not like to see restaurants made completely nonsmoking. That's discriminating and unfair. The whole idea of regulating people's personal behavior needs to be carefully looked at before you make any rules about smoking and nonsmoking anywhere.

Ronda Osborne

I personally do not smoke and I believe that smokers do infringe on the rights of nonsmokers. I would like to see smoking limited in areas where people have to be together, like the office. People who have breathing problems or allergies to smoke can really suffer sometimes. It makes it very difficult to work if you are constantly being irritated by smoke.

Pipe and cigar smoke are the worst. They have the strongest odors. I realize though that smokers have rights too, and I think certain areas should be set aside for those people who choose to smoke — in the office and public places. Movie theaters already do that and even some restaurants have areas divided off. It's nice to go out for a meal and not have to taste cigarette smoke along with your food.

Mike Resseque

I'm a reformed smoker who used to have a pack-and-a-half per day habit, so I know how smokers feel when you start talking about regulating where they can or cannot light up. I quit about 10 years ago and it was the best thing I ever did. I think tightening the restrictions on where people should be allowed to smoke is a very good idea. I gave up the habit to clear my lungs and I certainly don't want to be inhaling someone else's cigarette smoke.

The restrictions that exist now in places like elevators and airplanes are great and there should be more of them. I can't stand it when I go someplace like a restaurant or even the office and when I get home I can still smell smoke on my clothes. I know it would be tough on smokers — I can empathize somewhat — but it really has to be done. Smoking is just unhealthy and those who choose not to smoke should not be subjected to other's bad habits.

Mary Deaton

In public places like a resturant, I like to have the opportunity to choose smoking or nonsmoking seating. I don't smoke and I think public areas should be regulated so that people have a choice. A lot of restaurants, movie theaters, public transportation and so on, already have these kind of rules.

Further regulation, though, might be too much. For instance, in the work environment, I don't really think regulating smoking and nonsmoking areas would really work. All kinds of people have to work together and rules that separate people on the job would only make communication more difficult. Your office or any other workplace is not necessarily a place where you chose to be. You are paid to be there — unlike public places where you can choose not to go someplace if you don't like it for some reason — like smoke.

Willie Taylor

I think it's a good idea to have smoking and nonsmoking areas because personally I get irritated sometimes — my eyes get all red and I start coughing. The way I look at it, where my freedom or personal space ends that's where yours begins and anytime you violate those boundaries — if you're a smoker and your smoke intrudes on me — then you are inconveniencing me. That's plain rude.

There should be separate areas for the smokers to go and enjoy their cigarettes or whatever, without annoying nonsmokers. Cigars really irritate me the most — especially at restaurants. You get that smoke taste in your mouth and it just ruins the food.

obituaries

GEORGE S. FURLONG of Jig Details & Sub Assy., Plant 2, died March 11 at the age of 61. He had been with the company since 1948 and resided at 47 East 19th Street, Huntington Station.

ELIZABETH GOMES of Food Service, Plant 43, died March 11 at the age of 60. She had been with the company since 1979 and resided at 1392 St. Louis Ave, Bay Shore.

PAUL H. HUMBERT of Program Management F-14A, Plant 1, died March 11 at the age of 61. He had been with the company since 1967 and resided at 15 Ocean Ave, Patchogue.

JOSEPH SOLOMON of Mechanical Process Engineering, Plant 2, died March 21 at the age of 55. He had been with the company since 1969 and resided at 20 Wendell St., Hempstead.

DOUGLAS K. ALEXANDER of Power Plant Design, Plant 40, died March 20 at the age of 26. He had been with the company since 1982 and resided at 339 31st Street, Lindenhurst.

Personals

My family and I wish to thank all my friends, co-workers and Hawkeye Golf League for their mass cards, flowers and visits during the recent loss of my mother. Your kind expressions of sympathy were deeply appreciated. Edward Raab

On behalf of my family and myself I wish to thank all the wonderful people who gave support to us during my father's illness and subsequent death. Richard E. Noble

calendar

American Production & Inventory Control Society: Tues., April 24, Cooky's Steak Pub, Huntington. Dinner at 7 p.m., speaker at 8 p.m. Topic will be "KANBAN or OPT — What's Best." Guest speaker will be Michael Maturo of Creative Output Inc.. Guests welcome. Norm Heilweil, Ext. 2250.

China-Burma-India Veteran Association: Tues., April 24, Recreation bldg., 5 p.m. Guest speaker will be Albert H. Franke, Long Island BASHA Commander. W. Pytlowany, Ext. 3926/8587.

Coin Club (Bethpage): Wed., April 25, Plant 25, vendor conference room, 12:05 p.m. Informal lunchtime meeting. Ken Hale, Ext. 1825.

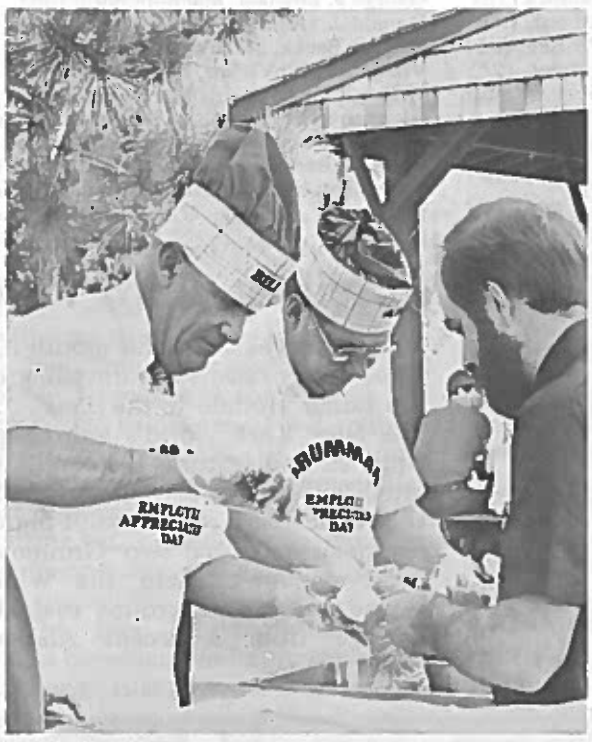
Grumman Disabled American Veterans Club: Wed., April 18, Plant 3 cafeteria, 4 p.m. All disabled american veterans welcome. O. Lewis, Ext. 4476.

Grumman Family Campers: 1st Sun. of every month, Recreation bldg., 5 p.m. Guests welcome. Al Hanes, Ext. 115-3551.

Grumman Flying Club: Mon., April 23, Boces Bldg., Hicksville, 5:15 p.m. Regular monthly membership meeting. R. Reisch, Ext. 4847.

Grumman Scuba Divers Club: Wed., May 9, Fox Hunt, Hicksville, 7:30 p.m. Dive program, guests welcome. P. Craig, Ext. 5256.

(Continued on page 11)



Come and get it. *On Thursday, March 15, the annual Stuart Operations' Employee Appreciation Picnic drew hundreds of Grummanites to the picnic grounds at Plant 77. The full-course luncheon included hot dogs, sausage/pepper/onion heroes, cole slaw, baked beans, soda, coffee and dessert. The Stuart management team headed by Vice President Ed Dalva served the picnic fare to fellow Grummanites.*

letters to the editor

Dear Editor,

I always look forward to the column that occasionally appears in the Plane News when Grummanites express their opinions on some of the topical questions of the day. Since we share a common interest, their response has been a point of interest and most of the time, a point of agreement.

I would like to suggest that you occasionally publish correspondence from Grumman people in the field so we can share with them and gain a little insight into their life and experiences. With this in mind, I am enclosing an article relating to my field assignment at Princeton University.

Sincerely,
Casey Jones

Editor's note: We think Casey has a good idea. We welcome other Grummanites in the Field to drop us a line, too. Featured below is Casey's story.

Many times during my career at Grumman, I would meet people going on field assignments to faraway, exotic places. I would imagine what some of these places were like, what new experiences these people would find, what stories they would have to tell. I guess, in retrospect, I was slightly envious. After 20 years with Grumman, the farthest I had ever traveled was to Great River, Long Island. But as the saying goes, all good things come to those who wait.

One day, I was asked if I would like to go on a field assignment. I envisioned palm trees, blue warm oceans, sandy tropical beaches . . . . then I learned it was in New Jersey. "Jersey," I said, . . . "who goes to Jersey? . . . only cousins live in Jersey."

After talking it over with my wife, we decided that although it wasn't palm trees, why not have an adventure — even if the biggest "ocean" we crossed was the Hudson River. Driving down to my new assignment, I mused, what do I know about Jersey? Everybody knows about Elizabeth, where you hold your breath past the refineries. We drove through cities, then small towns and pasture land. Then I got a glance from my wife. "Casey, do we really know what we're doing?"

We continued on the Jersey Turnpike to Exit 8A, where we pointed the car in the direction of Princeton. We were going to a new world — fusion energy and Princeton University.

As far as my career is concerned, I've worked on aircraft — the A-6, F-14, the LEM, TACRV (does anyone remember that one?), and the Hydrofoil — but in no way did that prepare me to step into the year 2000! I am now involved with a technology that, if it's successful, will provide man with a clean energy source using the principles of the sun. It's a fascinating program surrounding by fascinating people.

I said I would be brief about my job, but I would like to be lengthy about Princeton. The town is much like eastern Long Island. In fact, it reminds me of how all of Long Island was 30 years ago. There are signs everywhere inviting people to pick fresh fruit and vegetables. When I found that the main street of Princeton was Nassau Street, I felt we had discovered a bit of Long Island in Princeton. Nassau Street is the dividing line between "town" and "gown." The university sits on the eastern side, and the town on the west, and they are in perfect harmony.

I have a friend who has traveled to all parts of the world, seeing many great universities, and he says Princeton University has the most beautiful campus. The buildings to marvel at date from 1755 to the architecture of today. The campus is bordered by a man-made lake four miles long — a gift of Andrew Carnegie.

The town is also a beauty! There are no fast-food places, and there are houses that date to pre-Revolutionary days. Two hundred years ago, George Washington chaired the first Continental Congress in Nassau Hall, the first Princeton University building.

But history is only one facet of the town's vibrance. It's also a melting pot of nationalities. There are numerous boutiques, bookstores, and ethnic restaurants, and you can walk the streets at 12 o'clock at night without fear.

Speaking as Grummanites, we have gained a true appreciation for those families who represent Grumman across the U.S. and throughout the world. We have also learned that all changes require some trade-offs. It's still hard to believe that moving only 100 miles from Bethpage was a transition, but luckily, the change was to our liking. We don't dream about palm trees anymore, because we've found an oasis at Princeton. We love New York and we love Princeton. Come see it!

Princetonians. *Casey Jones and his wife Joan 'don't dream about palm trees anymore.' They proclaim, 'We've found an oasis in Princeton.'*

service milestones

The following Grummanites celebrate their 15 and 20 year anniversaries this month.

15

Frank J. Poplawski, PPO F-14 (1)
Frank R. Callihan, Metal Treat-Fin. (1)
Michael J. Kazazis, ILS Mech. Equip. Eng. (1)
Leon H. Akl, ILS Site Reqts. (1)
Porfirio A. Viamonte Jr., Sys. Safety (1)
Eugene P. Lavan, Stabil. & Cont. Equip. (1)
Francis L. Smith Jr., Prod. Rel. & Anal. (2)
George E. Kelly, Cutter Grinder (2)
Luciano Cignarella, Jigs & Fix. (2)
Eugene R. Schildknecht, Qual. Engr. Prod. Sup. (2)
Joseph J. Boccia, Small Parts Fab. (3)
Emanuel Arcuri, Final Assy. (3)
Wilfred R. Berube, Flt. Trans. (4)
Donald E. Schoenhut, Oper. Anal. (5)
Ronald H. Hill, Graphic Des. & Ill. (5)
Charles R. Zambito, Mgmt & Staff (5)
Marvin W. Jaffe, Bus. Mgmt. & Anal. (5)
George H. Busch, Facilities (6)
John R. Svandrlik, F14 Joining (6)
William H. Keil, Repair Cont. (6)
Robert A. Sikora, Govt. Matl. Cont. (7)
Robert L. Mandel, Software Appl. (7)
Dennis A. Rakin, Flt. Dynamic & Load (7)
Edward C. Waters, Conf. Data Mgmt. (9)
Daniel M. Ng, Qual. Lab. (10)
Benjamin Bergenfeld, Maint. Rearr. (12)
Ottavio Giannuzzi, Adv. Matl. & Process Dev. (12)
Carolann Buechler, Repro. Serv. (15)
George J. Serchak, ILS Tech. Writing (15)
Eleanor M. Dehner, Cent. Shipping Mgmt. (17)
George Nadel, PPO E-2 (25)
Louise Farrell, PPM — Mil. & Space (25)
Thomas A. Carman, PPM — Mil. & Space (25)
Alvin Blau, ILS RF/Servo/Elec. (25)
Alan E. Dinn, ILS Sys. Concepts (25)
Robert F. Schumann, ILS Equip. Des. Engr. (25)
Dominick Prezioso, ILS Equip. Des. Engr. (25)
Amelia D. Musco, Financial Ops. Sect. (25)
James J. Donnelly, Funct. & Proj. Admin. (25)
Anthony M. Cove, Proc. Serv. (30)
Max Auerbach, Subsys. (30)
Theodore Davis, Repair Cont. (30)
Bernard D. Perkins, Reqts. Plan. (30)
Mary T. Halloran, Mach. Parts/Matl. (30)
Paul A. Pelletier, Fac. Admin. (30)
Robert H. Burrowes, Civil Eng. (30)
Anna Rasmussen, Inv. Audit (30)
Desmond R. Parker, Audit Lia. (30)
Bernard B. Abrams, Software Appl. (31)
Irving C. Stiles, ILS Sys. Concepts (35)
Donald P. Tuohy, ILS Res. Cont. (40)
George V. Euler, ILS Res. Cont. (40)
Donald C. Sedlack, ILS Ops. Supt. (40)
Joseph Sciortino Jr., ILS Subsys. Eng. (40)
Erma M. Duryea, Food Serv. (40)
Georges Bertin Jr., Sys. Cost/Perform. Anal. (40)
Douglas B. Keuling, Prog. Plan. Cntrl. & Budg. (40)
Manuel L. Rodriguez, Methods Eng. A/C (43)
Charles R. Acker, Mfg. Tech. (43)
Dealmos Gaines, Prod. Mgmt. (77)
Wilson R. Drake, Machine/Tool Shop (77)
David L. Jones, Facilities (77)
Earnest Jackson Jr., Electrical (77)
Karl J. Christenson, Engineering (88)
Carmen M. Fernandez, Prog. Proc. Trainer Sys. (105)
Paul A. Muhs, Proj. Plan. (107)
James W. Harrison, Eng. Oper. (284)
Ronald J. Szaronos, Supt. Sys. (294)

20

Arthur J. Carrai, ILS Res. Cont. (1)
Gerald Gelfand, Sys. Intg. (1)
Anthony Kraus, Subsys. Rel. (1)
Arthur Lih, Subsys. Rel. (1)
Charles J. Shattuck, Safety & Maint. (1)
Rita S. Sudwischer, Sect. Serv. (1)
John Townsend, Invent. Cont. (2)
John W. Bartel Jr., Machine Shop (2)
Robert L. Adams, Food Serv. (2)
Augustus Osborne Jr., Food Serv. (2)
Frank J. Azzarello, Mfg. Prod. Cont. (2)
Richard L. Fugallo, Conv. Mach. (3)
Charles J. Radimer, Invent. Cont. (3)
Gloria H. Meinecke, Supt. Equip. Prod. (5)
Henry G. Buschman, Prod. Rel. & Anal. (5)
Rudolph J. Zanella, Corp. Inst. Sys. (5)
Raymond E. Souter, Food Serv. (6)
Robert V. Rider Jr., Propl & Fluid Sys. (6)
Albert K. Weidig, Prog. Coordination (6)
Louis B. Decolator, FTT Systems (7)
Rolf E. Schwarz, Corp. Instr. Ops. & Projs. (7)
George J. Maune, Templates (11)
Walter L. Quigley, Lab. Mgmt. & Tech. (14)
Edward V. Reiss, Lab. Mgmt. & Tech. (14)
John E. Berhalter, Camera Graphics (15)
Thomas W. Reilly, ILS Engr. Mgmt. (25)
Frank J. Wenz, ILS Digital TPS Eng. (25)
Louis Levoy, ILS Mech. Eng. Mgmt. (25)
Anthony LaVardera, ILS Mech. Equip. Engr. (25)
Alphonse S. Bishay, ILS Elect. Pkg. (25)
Sidney Zeidner, Radar (25)
Harry Barnes, Proj. Plan. (25)
George H. Golden, Prog. Mgmt. E-2 (25)
Barbara H. O'Connell, Personnel (28)
Theodore Collock, Tech. Reqmts. (30)
Judith M. Cote, Audit Lia. (30)
Francis X. Bowers, Fld. Pwr./Pyrotechnics (35)
Donald G. Collins, Computer Aided Struct. (35)
Constantine Davantzis, ILS Mech. Equip. Engr. (40)
Joseph M. Umscheid, ILS Sys. Concept (40)
Paul B. McCann, ILS Supply Ops. (40)
Clarence H. Boyd, Electro Compatibl. (40)
Albert L. Hanes, Subsys. Rel. (40)
Richard Bob, Stabil. & Cont. Equip. (40)
Alexander B. McKeveny, Ep. Circ. & Mod. Fab. (43)
Evelyn F. Keker, Insp. Elec. (44)
George J. Michael, Machine Shop (56)
Ronald J. Gomes, Tech. Ops. (77)
John J. Becak, Machine/Tool Shop (77)
Vincent T. McVicker, Facilities (77)
Walter Livingston Jr., Facilities (77)
Algimantas R. Gustaitis, Base Mgmt. (88)
William F. Matzen, Engineering (88)
Frank J. Bernabei, Engineering (88)
Claire Hetterich, ILS Sect. Serv. (106)
William J. Bradley, ILS RF/Servo/Elec. (106)

Dateline: April 1969

Fifteen years ago this month . . . Grumman wins a $400,000 study contract for preliminary design of a lunar roving vehicle . . . . Apollo 9 astronauts — Jim McDivitt, Dave Scott and Rusty Schweikart — tour six Bethpage plants after their successful space mission which included testing the Grumman-built LM. It's standing-room-only as the three astronauts tell Grummanites that the LM is ready to fly to the moon . . . . The Grumman Amateur Radio Club and the Grumman Ex-Service Men's Club offer Grummanites a way to send personal messages to relatives serving in Vietnam and Korea.

Dateline: April 1964

Twenty years ago this month . . . *Plane News* covers the unveiling of the Lunar Module to the press . . . . The New York World's Fair opens April 22 and features LM and OAO satellite models in the futuristic U.S. Space Park . . . . Prompt photo reconnaissance by two Grumman OV-1 Mohawks help the White House and rescue groups evaluate damage from a recent Alaskan earthquake.

Bowling bunch. *Recreation chief Charlie Fuschillo (4th R) presents Jake Swirbul Memorial Trophy to 1984 Grumman men's varsity bowling team captain Al Kirillin. The Grummanites won the L.I. Industrial Tournament which is sponsored by Grumman. It was the first time that a Grumman team won in 10 years.*

Varsity men win LI bowling title

The drought is over. It's been 10 long years, but the Grumman men's varsity finally captured the Long Island Industrial Bowling Tournament title on March 31.

Going into the final night of play, the Grumman varsity held a slim lead of 25 pins over Pan American. After the first game, Grumman increased its lead to 60 pins. After the second, Pan Am cut the Grumman team's lead to 19 pins. But the Grumman keglers insured their first tourney victory in 10 years by coming from behind in the last three frames to win by 97 pins.

Team captain Al Kirillin led the scoring on the final night with games of 203, 236, 216 for a 689 series. Ed Gabriel added 629 pins; Ed Hilbert, 556; Jack Nielsen, 603; John Eborn,351; and Niel Napolitano, 178.

Al Kirillin finished the 12-game tourney with an average of 220-plus. He finished second in total wood to Pan Am's Gene Ambrose. Ambrose chopped down 2,670 pins, while Kirillin was 25 pins shy.

The Grumman team captain did win a first place trophy for high game, though. Kirillin rolled a 297 game on the second night of play. No one came close throughout the competition.

The Grumman team also stepped into the winner's circle to pick up its high team series trophy. The team bowled a 3,006 series on the final night.

scorecard

One and one

The Grumman varsity hockey team came away from the New York State Hockey Tournament with one win and one loss.

The Tomcats took the first game of the tournament from Team Universal by the score of 9-2 enabling them to move into the final round against perennial powerhouse Niagara Warriors. The Tomcats made a valiant effort against the more experienced Niagara team but were outgunned 9-1.

The loss, while disheartening, was a considerable improvement for a Long Island Industrial Hockey League team against the Warriors who play in the powerful Canadian Hockey League. Last year's LIIHL first place squad Grey Goose had fallen to Niagara 19-1 in the 1983 tournament.

Mets tix

The "boys of summer" are already warming up for the 1984 baseball season and Grumman Recreation is offering you a chance to get in on some of the action this year at Shea Stadium.

Recreation has discount tickets for Friday night Mets games on June 1 versus St. Louis; July 6 against Cincinnatti; and August 10 versus Pittsburgh.

Tickets are $6.50 with seats located in Shea loge section, 13 for the first two games and sections 11-13 for the last contest. GRA is also providing round trip bus transportation to the stadium for $3.75 per person. For further information, call the Recreation office, Ext. 2133.

High kicker. *The L.I. indoor soccer league's leading scorer this season is Grummanite Bill McGloin, an F-14 cre/equipment design engineer. He scored 15 goals and had 11 assists.*

Play ball!

While Grummanites up North were battling snow and ice, some of their counterparts at Grumman St. Augustine Corporation were capping off their 1983-84 winter softball season. The GSAC winter softball team finished the season in fourth place with 15 wins and seven losses in the St. John's County/St. Augustine Winter Softball League.

The Grumman squad's MVP award went to Rich MacMullen at a recent awards ceremony. Also receiving trophies were Rich Youmans, best defensive player; Brian MacMullen, best batting average; Jack Connahey, most RBIs; and Greg West, most runs scored.

In other softball action, the GSAC 1984 Summer Softball team roster has been set. Included on this year's team are: Rich Youmans, Rich Johnson, Kevin Gregory, Tom Mathis, Joe Solano, Rich MacMullen, Brian MacMullen, Jack Connahey, Ron Davidson, Ray Ayers, Dave Russel, Scott Oster, Rick Jimmerson, Bob Johnson, and Greg West. The summer Team finished second in a regional pre-season tournament held in Green Cove Springs on March 10, in which it competed against a large number of Northeast Florida softball teams.

Snowbirds

Grumman Recreation is sponsoring a bus excursion to Florida in November. One of the highlights of the trip for Grumman Retiree Club members and their spouses will be the annual Retiree Club Reunion Dinner and Picnic on November 9 and 10.

The bus leaves Bethpage on Wednesday, November 7, and returns November 14. Price is $315 per person (double occupancy); $399 for singles; and $275 for triple-occupancy-per-room travelers.

Price includes transportation in lavatory-equipped, air conditioned motor coach; seven nights accomodations; tax and gratuities and admission to Epcot Center.

Only Retiree Club members and their spouses are eligible to attend the reunion dinner and Stuart Operations Picnic on November 9 and 10, respectively. A tour of Kennedy Space Center on November 10 is optional.

Reservations may be made in person at the Grumman Recreation Office (Plant 28A) on South Oyster Bay Rd., or by calling the Recreation Office, Ext. 2133/(516) 575-2133.

Flora '84

The Grumman Garden Forum has released its 1984 schedule of shows.

"We are striving to present the shows in as many different locations as possible this year," says forum director Barbara Spanskie. "That way we hope to stimulate more interest, more entries, and at the same time share the beautiful flowers with as many Grummanites as possible."

The schedule for the 1984 flower shows is: Spring Show, May 8, Plant 1 cafeteria; Rose Show, June 12, Plant 35 cafeteria; Summer Show, July 17, Plant 5 cafeteria; Great River Show, August 16, Plant 43 cafeteria; and Fall Show, September 16, Plant 30 cafeteria.

Memorial plaques will be presented at the spring and fall shows commemorating two retirees, Mike Smith and Helen Chlanda. The plaques are engraved with a poem written by Dot Kappenberg, retiree and former Garden Forum director. The spouses will be presented with the plaques.

Magical tours

With spring sprung and summer soon to be upon us, many people are thinking about getting away for a change of scenery.

Grumman Recreation has put together several road trips designed to accommodate everyone from the weekend traveler to those seeking full-fledged cross-country vacations.

For the Grummanite looking for a quick seaside getaway, Recreation offers a Cape Cod weekend. Scheduled for departure at 5:30 p.m. on June 7, vacationers will return to Bethpage on Sunday, June 10 at 8 p.m. The price tag of $299 per person (double occupancy) covers transportation by motor coach, three nights accommodations and two dinners — one of which is a Cape Cod clambake. Also covered in the trip's price are admissions to numerous museums and scenic areas as well as tours of Cape Cod and Plymouth, and a cruise to Nantucket Island.

If the rocky shores of Massachusetts is not what you're into, then how about a trip inland — and into the past? Recreation has a summer weekend trip to a place where life has not changed from simpler times. From August 3 to August 5, Grummanites can stay in the Pennsylvania Dutch Amish country. Double occupancy price for the bus trip is $165 per person and it includes round trip transportation, two nights accomodations and several ample Amish style meals.

For those with more adventure in their hearts, more time on their hands — or both, Recreation offers a 23-day coast-to-coast panorama motorcoach tour. The adventurous journey begins Saturday, September 1 at 7 a.m. from Bethpage and ends on September 23, at approximately 8 p.m.

The trip costs $1,250 per person (double occupancy) and features transportation by deluxe motorcoach highlighting such famous spots as Badlands National Monument — Mt. Rushmore — Salt Lake City — Virginia City — Lake Tahoe — San Francisco — Golden Gate Bridge — Los Angeles — Hollywood — and many more. The tour rate also includes 22 nights at first-class hotels and motels, assorted tours and free admissions. Travelers are requested to make a $150 deposit per person in order to confirm reservations with full payment required by July 1, 1984.

In addition, Grumman Recreation is also offering travelers the world — in the form of a trip to New Orleans' 1984 World's Fair. From October 1 to 11, the trip includes accommodations for 10 nights; bus transportation; two days admission to the World's Fair and a guided tour of New Orleans. The cost for all this and more is $579 per person (double occupancy). A $150 deposit is required for reservations.

For further information on all these trips and many more being offered by the Grumman Recreation office, call Ellen Drasser at (516) 575-2133; Ext. 2133.

calendar

(Continued from page 8)

Grumman Ski Club: Tues., April 24, McKeon's, Hicksville, 8:30 p.m. Guests welcome. Art Garmendia, Ext. 7819/8910.

Grumman Tennis Club: Wed., April 18, Recreation bldg., 5 p.m. General membership meeting. Guest speaker will be a tennis pro from REC Sporting Goods Inc., he will talk about various types of rackets and equipment selection. Howie Frauenberger, Ext. 9587.

Motorcycle Club: Wed., April 18, Recreation bldg., 5:30 p.m. Election of officers, guests welcome. J. Mehnert, Ext. 6163.

Society of Logistics Engineers: Wed., April 25, Antun's, Hicksville, 5:30 p.m. Guest speaker will be Mr. R. Reinder, General Manager of L.I. Marriott Hotel. Guests welcome. Stan Lane, Ext. 7527.

Golf varsity trials

Registration form

Name ..... Perm No. .....

Mail station ..... Ext. .....

Club or league	Course	Handicap
.....		
.....		
.....		

Mail to Mike Cherry, A01-28A
Deadline: April 18, 1984

Tryouts tee off in May

Feel like teeing off with the best? If you have a handicap of 10 or less on regulation golf courses and are looking for a chance to get involved in some competitive play, then here's your opportunity. The Grumman varsity golf team is holding its tryouts in May.

To qualify for the 1984 tryouts, you must have an official handicap — on a regulation golf course — from a 1983 Grumman golf league or a country club. The trials will begin on May 14 at Bethpage State Park. The first team cuts will be made after the second round of tryouts on May 16. Those eight golfers with the lowest scores after the third round on May 21 will comprise the 1984 Grumman varsity team.

Deadline: April 18

To register for the trials, fill out the form on this page and mail it to: Mike Cherry, mailstop A01-28A, no later than April 18.

Nite Owl duffers

Nite Owl golfers, take note. There will be an organizational meeting for all those interested in participating in the Nite Owls Golf League on April 24, at 2:30 p.m. in the Grumman Recreation auditorium, Plant 28A.

League play will begin on May 7 and will be held on Mondays at 7 a.m. at Bethpage State Park. For further information, call Bill Braun after 3:30 p.m. at Ext. 2020.

Hoopsters pummel IBM

The Grumman varsity basketball team continued its unbeaten streak against the highly rated IBM team. The varsity defeated last year's league champs for the second time this season by a score of 85-80. The closeness of the win belies a Grumman dominance of the game in which the team lead by as many as 16 points late in the fourth quarter. The lead was chipped away by IBM when two Grumman starters — Tom Walker and Dave Follins — both fouled out.

Zone pays off

IBM held an early lead of four points in the first half of the contest until the Grumman coaching staff decided to implement a zone defense. The zone stymied IBM and the Grummanites took the lead for good before the end of the half.

Leading the scoring for the Grumman squad was Columbus Poole who set a blistering pace in the game totalling 31 points and eight rebounds. High-flying Rick Cooke contributed 20 points and 10 rebounds. Tom Walker had 10 points and seven rebounds. Forty-three-year-old Jim McKinstry ripped 11 rebounds and dished off seven assists in addition to making two key steals and scoring four points. The victory gave the Grumman hoopsters sole possession of first place in the Long Island Industrial League.

In other league play, the varsity coasted by rival Fairchild, 90-80, as Poole again led the team scoring with 26 points. Cooke followed close behind totalling 23 points as Fred Turner also scored in double figures contributing 19 points for the night.

In earlier action, the Grumman team held on to beat the AIL squad after seeing an early 21-point lead cut to a final margin of 100-96. The closeness of the win was attributed to 13-for-28 foul shooting for a poor 46 percent and sloppy ball handling resulting in 29 turnovers by the Grumman team.

Recreation has it all! Join the club for only $1

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